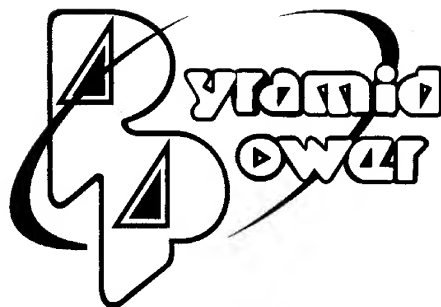


# Owner' s Manual

Model No.: CR-71

Please Read Carefully Before  
Installation and Use



# ***PYRAMID***

*3-Way Electronic Crossover With Remote Control*





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# I N T R O D U C T I O N

Congratulations, and thank you on your purchase of a **PYRAMID** CR-71. You have selected one of the finest audio reproduction products available today. In choosing the CR-71 crossover have made possibly the single largest improvement you can add to your audio system. Strive to provide you, the consumer, the highest production quality and sonic reproduction available has become a personal goal of the staff at **PYRAMID** and you have selected an excellent example.

Providing you with sophisticated crossover is not all **PYRAMID** has accomplished. Check out our full line of amplifiers, signal processors, dynamic component systems and coaxial speakers, and of course our wide selection of high performance subwoofers, explore the potential of **PYRAMID** and most of all, enjoy the music!

# I M P O R T A N T

**PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION!**

The quality of the installation may affect the performance and reliability of your **PYRAMID** crossover network.

Please take the few minutes to read the manual carefully.

The time you spend on installation will prove to be worthwhile when it's time to listen to your investment.

# **F E A T U R E S**

- Gold Plated RCA and Power Connectors
- Remote Control Provided for Low Pass Output Level
- Remote On/Off Power Control
- LED Power Indicator
- Switching Power Supply
- Low-Noise High Slew Rate Audio Grade Op Amps
- Fully Adjustable Low and High Pass Output Levels
- Phase Reverse Volume on Low Pass
- Infinitely Variable Low Pass crossovers, Rear and Main
- Infinitely Variable High Pass Crossover, Front and Rear
- Low Pass Mono Channel Selector for "Mixed" or "Direct" Low Pass Inputs
- Bandpass/Highpass Switch for Rear Channels
- Bass Boost Volume with Variable Frequency Volume

# **S P E C I F I C A T I O N S**

- Input Impedance .....39 K-Ohm Each Channel
- Maximum Input Level .....4.5V RMS
- Maximum Output Level .....9V RMS
- High Pass Crossover, 12dB / octave.....Front : 65Hz-4.5KHz  
Rear : 65Hz-4.5KHz
- Low Pass Crossover, 12 dB / octave.....Rear : 300Hz-4.6KHz
- Low Pass Crossover, 12 dB / octave.....Main : 40Hz-4.2KHz
- Low Boost.....0 to +18 dB
- Gain Structure.....Variable, 0 to +6dB
- Frequency Response, Low Pass.....5 Hz - 4.8KHz, -3dB
- Frequency Response, High Pass.....Front : 65Hz-50KHz, -3dB  
Rear : 65Hz-50KHz, -3dB
- Signal-to-Noise Ratio, A Weighted.....>95 dB
- THD .....<0.01%
- Dimensions ( W x H x D ) Inches .....9 19/64" x 6 19/64" x 1 1/2"

# **E L E C T R I C A L   W I R I N G**

CR-71 signal processors and car audio crossovers are equipped with easy top access screw terminals. These terminal are 14K gold plated in order to ensure excellent electrical contact, and to resist corrosion.

When making electrical connections to the signal processor and crossover, please observe the following:

- ⊗ Use at least 16 gauge or heavier wires for power and ground connections.
- ⊗ Wire the crossover directly to the car battery, with a 1A fuse in-line.
- ⊗ For the ground connection, use the shortest possible wire to a good chassis ground point.
- ⊗ Wire the remote connection to the remote turn-on connector of your head unit.

# **M O U N T I N G   T H E   C R O S S O V E R**

Mark the location for the mounting screw holes by positioning the crossover where you wish to install it and use a scribe (or one of the mounting screws) inserted in each mounting hole to mark the mounting surface. If mounting surface is carpeted, measure the hole centers and mark with a felt tip pen.

Drill pilot holes in the mounting surface for the mounting screws and insert the mounting screws into these holes. Tighten them securely.

Note: Be sure to take note of any wires, lines or other devices in your vehicle which may be located behind any mounting surface!

# **P R E C A U T I O N S**

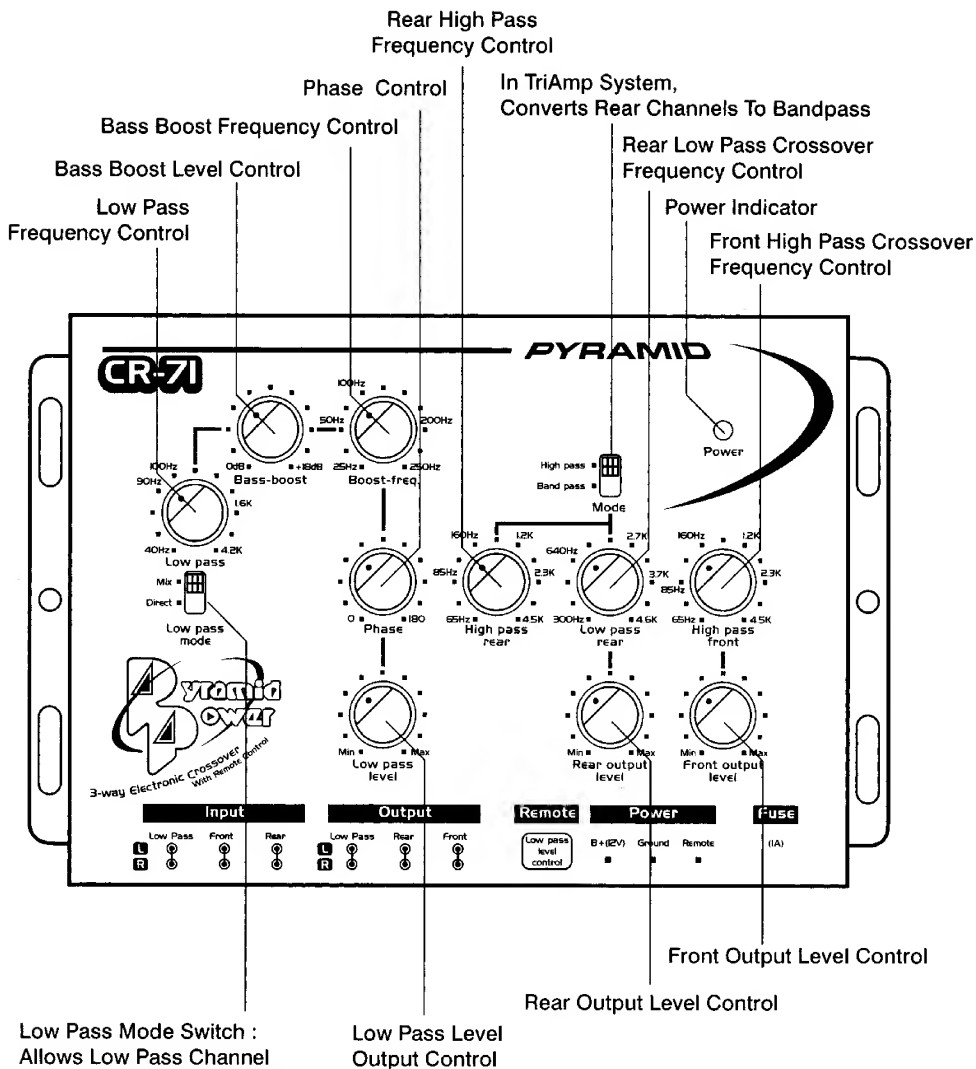
Before you drill or cut any holes, investigate your car's layout very carefully. Take care when you work near the gas tank, fuel lines, hydraulic line and electrical wiring.

Do not operate the crossover when it is unmounted, Attach all audio system components securely within the automobile to prevent damage, especially in an accident.

Do not mount this crossover so that the wire connections are unprotected or in a pinched condition, or likely to be damage by nearby objects.

Before making or breaking power connections in you system, disconnect the vehicle battery. Confirm that your head unit or other equipment is turned off while connecting the input jacks and speaker terminals.

# CONTROLS

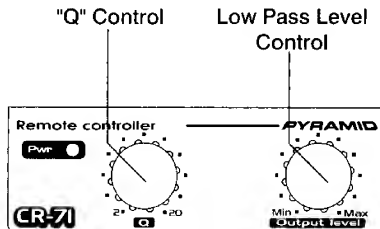


Low Pass Mode Switch :  
Allows Low Pass Channel  
To Receive Signal From Either  
The Mix of Front and  
Rear Inputs or From  
Low Pass Inputs Directly  
( When Head Unit Has Appropriate  
5th / 6th Outputs).

Low Pass Level  
Output Control

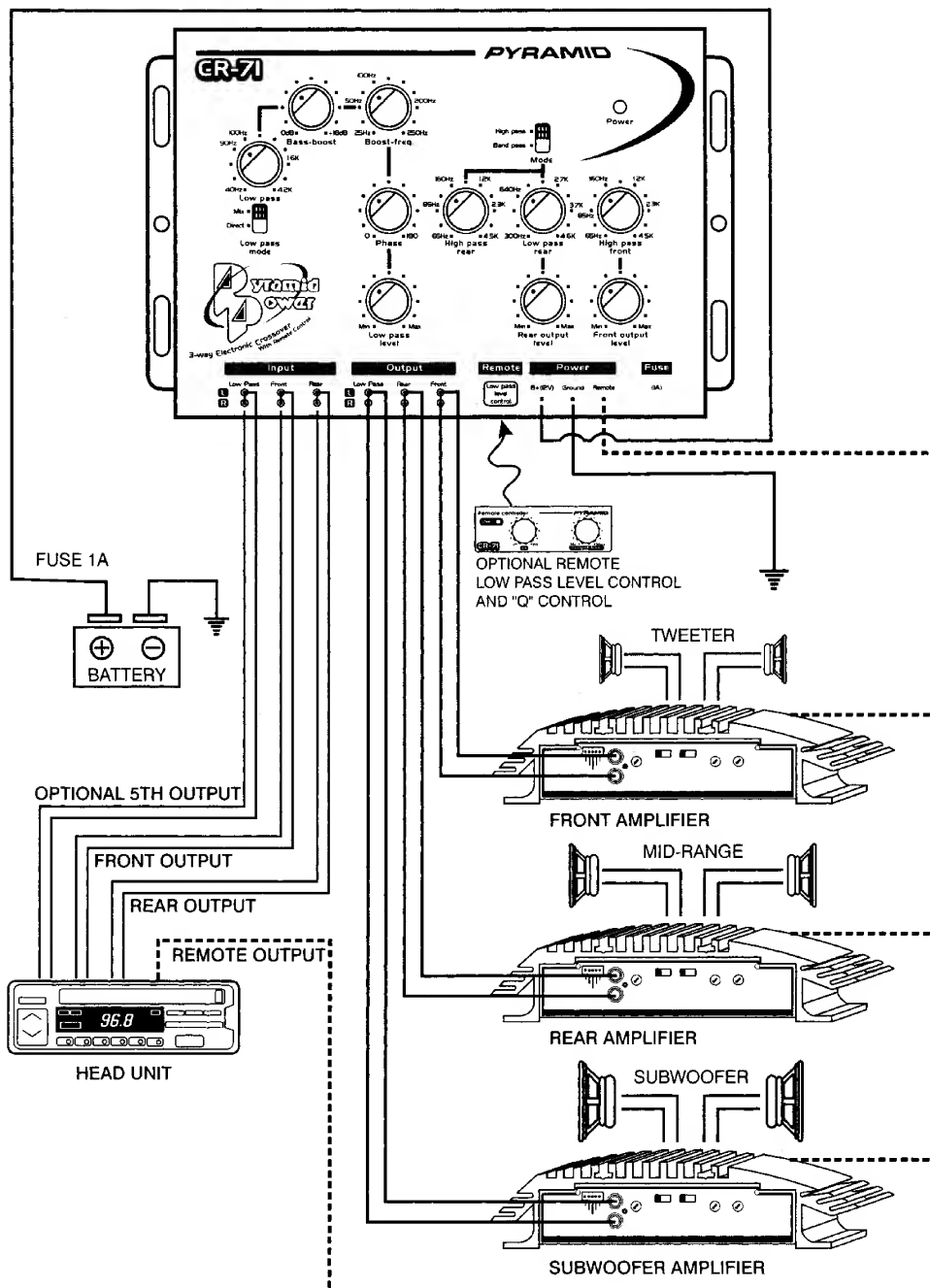
Rear Output Level Control

Front Output Level Control





# SIGNAL CONNECTIONS



# **T R O U B L E   S H O O T I N G**

Before removing your amplifier, refer to the list below and follow the suggested procedures. Always test the speakers and their wires first.

## **NO OUTPUT**

Confirm that all terminal strip connections are secure and tight.

Check both in-line and built-in fuses. Both the +12v and the REMOTE terminals must have +12v referenced to chassis ground.

Confirm that the audio signal source (car radio, equalizer, etc.) is connected and is supplying output signal. To check if the amplifier is supplying signal, unplug the RCA cables from the signal source (but leave them plugged into the amp). Briefly tap the center pin of each of the disconnected RCA plugs with your finger. This should produce a noise (feedback) in your speakers.

## **ONLY ONE CHANNEL WORKS**

Confirm that all speaker strip connections are secure and tight.

Check the BALANCE control on the head unit (or other source) to verify that it is set to its midpoint.

If you are using the Low Level RCA input, reverse the input plugs at the amplifier (switch the R with the L). If the channel which is silent switches to the other side, the problem is either in the head unit/ other source or the connecting cables.

## **NOISE IN THE AUDIO**

If the noise is a whine whose pitch follows the engine speed, confirm that the amplifier and any other signal sources (head unit, etc.) are properly grounded.

If the noise is a clicking or popping noise whose rate follows the engine speed, this usually means that the vehicle is equipped with resistor spark plugs and wires, or that the ignition is in need of service.

Check the routing of the speaker and input wires to make sure they are not adjacent to wires which interconnect lights and other accessories.

If the above steps fail to improve or clear noise interference, the system should be checked by a professional mobile audio installer.

**N O T E**

